AP Statistics

Chapter 23 Reading Questions

Read each of the following questions.

Read pp. 530-541 in the textbook then answer each question.

1. Proportions are measures from categorical data. What do we measure from quantitative data?
2. What does the Central Limit theorem say about the distribution of sample means from samples of size *n*?
3. If you know the mean of a Normal distribution, what does that tell you about the standard deviation?
4. Who was William Gosset?
5. What was his pseudonym? Why did he need one?
6. What did he discover?
7. How is his model different than the Normal model?
8. How is his model the same as the Normal model?
9. How are degrees of freedom calculated?
10. What effect does the degrees of freedom have on the shape of the model?
11. What is the equation for a 1-sample t-interval?
12. What are the conditions for a 1-sample t-interval?
13. When can a Normal model be used rather than Student’s t-model?
14. Complete the “Just Checking” Problem on page 538.